

11/18/98



PATENT  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Dkt. No. 2434.114



Box Patent Application  
Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Sir:

Transmitted herewith for filing is the patent application of:

Inventor(s): Paul A. Francisco and Frederick J. Petschauer

For: POINT OF SALE TAX REPORTING AND AUTOMATIC COLLECTION  
SYSTEM WITH TAX REGISTER

Enclosed are:

- ☒ Specification, claims and abstract, 40 total pages
- ☒ 7 sheets of ~~XXXXXXXXXX~~ formal drawings
- ☐ An Assignment of the invention to \_\_\_\_\_
- ☐ Executed Declaration and Power of Attorney
- ☐ A verified statement to establish small entity status under 37 C.F.R. §1.9 and 37 C.F.R. §1.27
- ☐ Preliminary Amendment
- ☐ Information Disclosure Statement and Form PTO-1449 w/references cited
- ☐ Certified copy of \_\_\_\_\_ Application No. \_\_\_\_\_  
from which priority is claimed is attached/will follow.

The filing fee has been calculated as shown below:

CLAIMS FOR FEE CALCULATION

	Number Filed	No. Extra	Rate	Basic Fee \$760.00
Total				
Claims	- 20	=	x \$ 18.00	_____
Independent				
Claims	- 3	=	x \$ 78.00	_____
Multiple dependent claim(s), if any			x \$ 260.00	_____
Fee Calculation				\$ _____

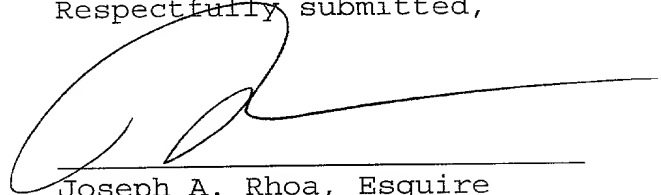
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- [ ] 37 C.F.R. §1.16 (filing fees)
- [ ] 37 C.F.R. §1.17 (presentation of extra claims)

A duplicate copy of this sheet is enclosed.

**THIS APPLICATION IS BEING FILED ACCORDING TO RULE 53.**

Respectfully submitted,



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POINT OF SALE TAX REPORTING  
AND AUTOMATIC COLLECTION SYSTEM  
WITH TAX REGISTER

Inventors: Paul A. Francisco and Frederick J. Petschauer

094940-1133  
BETTER SOFTWARE

This application is a continuation-in-part (CIP) of  
U.S. Application Serial No. 08/726,928, filed 10/3/96,  
which is a CIP of 08/438,890, filed May 10, 1995 (Patent  
No. 5,799,283, the disclosures of both of which are  
5 hereby incorporated herein by reference.

POINT OF SALE TAX REPORTING  
AND AUTOMATIC COLLECTION SYSTEM  
WITH TAX REGISTER

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This invention relates to a system for automatically  
10 forwarding retail sales transaction information and  
corresponding sales tax data from individual retailers to  
a centrally located remote location such as a government  
taxing authority using a tax register. More  
particularly, this invention relates to a system and  
15 method for ensuring that substantially all retail  
transactions upon which sales tax is collected are  
reported to and collected sales tax is paid over to  
government authorities for subsequent annual tabulation  
and submission to the IRS, the system and method  
20 utilizing a tax register disposed at each retail location  
and central computers and memories disposed at state and  
federal offices.

### BACKGROUND OF THE INVENTION

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The tax laws in the United States are set up so as  
to require retailers throughout the country to report all  
transactions made with consumers. For example, each time  
5 an appliance retailer sells a refrigerator or television  
to a consumer, the retailer is required to report the  
transaction and the amount of sales tax collected to  
state and/or federal government authorities for tax  
purposes. Unfortunately, many retailers (e.g. appliance  
10 stores, restaurants, furniture stores, automobile  
dealers, tour services, computer venders, etc.) do not  
report each and every cash transaction made with  
consumers to the state and/or federal governments, either  
intentionally or unintentionally. By not reporting all  
15 (e.g. cash) transactions, retailers avoid declaring their  
actual total gross income in their federal and state  
income tax returns thus putting themselves in a position  
to keep the sales tax collected from consumers on such  
transactions for their own enrichment.

20 Most states throughout the United States have  
legislated a percentage based sales tax on retail goods

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5 sold to consumers. Sales tax rates and the items taxed  
vary from state to state. In most states, a Certificate  
of Authority is issued by the state government to retail  
establishments, this certificate authorizing retailers to  
10 collect sales tax from public consumers and then, in  
turn, pay over all collected sales tax proceeds to the  
state treasury. When cash transactions occur or  
inadequate records are kept, retailers sometimes fail to  
report the transactions and do not turn over the sales  
15 tax collected thereon. This, of course, adds up to a  
significant loss for state and federal treasuries as more  
and more retailers accidentally forget or neglect to  
report transactions and turn over the resulting collected  
sales tax.

15 Currently, most individual states employ numerous  
auditors whose job it is to monitor and enforce proper  
reporting of sales tax transactions and the corresponding  
turning over of sales tax collected by retailers to the  
state treasury. Such auditors travel from retailer to  
20 retailer thereby visiting numerous retailer  
establishments at which the auditors "check the books and  
records" of the retailers for error (intentional or

unintentional). In the event that an unreported cash transaction occurs or the paperwork is unavailable, the unreported transaction is undetectable and the auditor is at a loss to enforce the particular tax laws at issue.

5           Currently, tax laws and retailers are set up so that retailers typically charge the required sales tax in most consumer transactions. Generally, retailers are collection agents for the government who collect, hold, and use for extended periods of time collected tax money  
10   which belongs to the government. However, consumers and state taxing authorities have no way to verify that all transactions made by the retailer and sales tax dollars collected thereon are reported to the state treasuries. In other words, retailers are currently on an "honor  
15   system" requiring them to report all retail sales to the proper authorities and pay over the corresponding sales tax amounts collected thereon. Unfortunately, as with all "honor systems", the reporting of some transactions goes unreported, either intentionally or unintentionally,  
20   thereby resulting in both retailer unjust enrichment and tax law unenforceability. The consumer has no way of

knowing if the collected sales tax is being turned over to the appropriate authorities.

It is apparent from the above that there exists a need in the art for a system and corresponding equipment and method to be implemented which increases the percentage of retailer transactions and collected sales tax forwarded to state and federal government agencies. By ensuring that a larger percentage of retail transactions are reported to taxing authorities and that a greater amount of the overall sales tax collected by retailers is paid over to state treasuries, local and federal economies can be more efficiently run and a lesser number of violators will slip through the cracks. It is also desirable that such a system and method have the flexibility for adaptation to other types of taxing of goods and services such as, but not limited to, a potential value added tax system.

U.S. Patent No. 5,335,169 discloses a system for tracking multiple rate assessments on transactions. The '169 patent discloses a computerized system for tracking multiple rate assessments on transactions with customers of a user of the system and includes a computer having a



processing unit, memory storage, input, display, and  
other programmable devices. The object of the '169  
patent is to implement a system capable of automatically  
tracking appropriate sales tax rates, sales types, and  
5 taxing jurisdictions for the user based upon a limited  
set of transaction designations. While the system of the  
'169 patent enables the user to keep track of appropriate  
sales tax rates, sales types, etc., the system does not  
act to ensure that all retailer transactions and sales  
10 tax collected thereon are reported and forwarded to the  
appropriate authorities.

U.S. Patent No. 5,138,549 discloses an automated tax  
deposit processing system for automatic processing of  
payroll, corporate profit, and excise taxes. A  
15 depositor, via a computer link, engages in a question and  
answer exchange with one of a multiple number of voice  
synthesizers connected to a processor, in accordance with  
the '549 patent. Through the exchange, the depositor  
enters tax deposit information which the processor stores  
20 in its memory. At the end of a particular time period,  
the processor stores tax deposit information relating to  
tax deposits due the same day on a storage medium in

format(s) predefined by the government agency. The processor also stores tax deposit information entered during the specified time period on a second storage medium so as to enable a bank to automatically transfer  
5 tax deposits from each depositors account to a bank account. The system of the '549 patent also includes remote communication terminals connected by links to the processor through which information on depositors and tax deposit due dates is entered. While the system of the  
10 '549 patent decreases lobby traffic in banks and personnel time involved in accepting and processing tax deposits, it does not function as does the instant system and method to automatically ensure that substantially all retail transactions and sales tax collected thereon are  
15 automatically reported and forwarded to the appropriate state and/or federal authorities.

U.S. Patent No. 4,144,567 discloses an electronic register which enables tax-calculating data to be stored in a memory. In a registration mode, amounts of articles  
20 bought by a customer or consumer are stored in the memory of an electronic circuit to calculate a total amount of all articles sold. The total amount calculated is

printed on a receipt and a journal sheet. In a tax set mode, tax data showing the relationship between a taxable amount and a tax assessable thereon is stored in a tax data memory by operation of an entry key and tax key.

5 Tax determined is stored in a buffer register so that after calculation of a tax by the tax calculation circuit, a print instruction is given which impresses the calculated tax stored in the buffer register. Later, the contents of the buffer and those of the sales amount  
10 memory are added together and stored in a memory. While the register of the '567 patent discloses a useful register for retailers, it does not act to automatically or ensure that all retail transactions and sale tax collected thereon are reported and forwarded to the  
15 appropriate authorities.

Conventionally, sales taxes are collected when goods are purchased and delivered into the same State (e.g. New Jersey). "Use tax" is supposed to be paid by buyers when same take delivery by parcel post in the buyer's home  
20 state (i.e. across state lines). Unfortunately, buyers often do not pay the required "use tax" given such circumstances. For example, if a buyer purchased a

computer from a company in New York and it was shipped to Virginia, via UPS, the seller would not collect New York sales tax. However, the buyer is legally obligated to go to the Virginia Tax Office and pay a six percent (6%) use  
 5 tax to the State of Virginia. Millions, and possibly billions, of dollars are lost annually in unpaid "use tax". This problem is magnified in situations where sales are made via the Internet and the like.

It is a purpose of this invention to fulfill the  
 10 above-described needs, as well as other needs apparent to the skilled artisan from the following detailed description of this invention.

#### SUMMARY OF THE INVENTION

Generally speaking, this invention fulfills the  
 15 above-described needs in the art by providing a point of sale tax reporting system comprising:

at least one (but possibly many) tax register located at a retailer location, the at least one tax register for processing consumer sales transaction data  
 20 at the retailer location and computing sales tax data to be paid to the retailer by the consumer based on the

amount of a sale, the at least one tax register  
forwarding the transaction data and the sales tax data to  
a first remote location;

5 a printer located at the retailer location and in  
communication with the at least one tax register, the  
printer for printing consumer receipts, the receipts  
having listed thereon the computed sales tax paid to the  
retailer by the consumer;

10 a first computer and corresponding first memory  
disposed at the first remote location, the first computer  
and memory for receiving and storing the forwarded  
transaction and sales tax data; and

15 a first communication link connecting the tax  
register at the retail location to the first computer and  
memory at the first remote location, the first  
communication link for permitting the register to forward  
the transaction and sales tax data to the first computer  
and memory whereby the transaction and sales tax data  
from the retailer is stored at the first remote location  
20 in order to help enforce tax laws and prevent retailers  
from avoiding the payment to the government of collected  
sales tax.

5 In certain further preferred embodiments of this invention, the first computer periodically accesses and debits an account of the retailer, the amount debited corresponding to the amount of sales tax paid to the retailer by consumers, the system thereby automatically debiting the retailer's account in accordance with the sales tax data computed and forwarded to the first computer by the register.

10 This invention further fulfills the above-described needs in the art by providing a method of automatically reporting sales tax paid by consumers to a retailer, the method comprising the steps of:

the consumer purchasing a good or service from the retailer;

15 a retailer register calculating the base sales cost and the corresponding sales tax owed the retailer by the consumer;

the retailer collecting the calculated sales tax from the consumer;

20 the register printing a consumer receipt using a printer, the consumer receipt having listed thereon the amount of sales tax paid to the retailer by the consumer;

the register forwarding as sales tax data the amount of sales tax paid to the retailer by the consumer to a first computer located at a first remote location;

the first computer receiving and storing the sales tax data in a first memory at the first remote location;  
5 and

repeating the above steps so that the first memory is periodically updated with sales tax data from the retailer whereby the amount of sales tax paid to the retailer by consumers is stored and summed by the  
10 computer at the first remote location.

In certain further preferred embodiments of this invention, the above method further comprises the step of the first computer automatically debiting a retailer  
15 account an amount corresponding to the sales tax data forwarded by the register whereby the sales tax paid to the retailer by the consumer is automatically collected from the retailer's account by the first computer.

This invention further fulfills the above-described  
20 needs in the art by providing a method of reporting and collecting sales tax paid to retailers by consumers, the method comprising the steps of:

a retailer pre-paying a government office a predetermined amount of sales tax to be collected from consumers, the amount of sales tax not yet having been collected by the retailer;

5       the government office crediting a declining register an amount corresponding to the amount prepaid by the retailer; and

the retailer using the credited declining register to print a consumer receipt for each retailer-consumer  
10   transaction upon which sales tax is paid, the consumer receipts having printed thereon the amounts of sales tax collected by the retailer from the consumer.

For retail operations such as restaurants where tips are customary, the tax register may be programmed to  
15   accept and report tip information.

In certain embodiments, the invention relates to all purchases from consumers that use a credit or debit card or any form of electronic payment. Anything that is bought whether at the local store, over the phone or  
20   through the mail or e-commerce, and a credit or debit card is used to make payment, the tax may be charged to the buyer at the point of sale and routed directly or



indirectly to the appropriate state bank (e.g. handling the credit card account or the like) or other monetary or tax authority.

This invention will now be described with reference  
5 to certain embodiments thereof as illustrated in the following drawings.

#### IN THE DRAWINGS

Figure 1 is a block diagram flow chart of an electronic point of sale tax reporting and automatic  
10 collection system according to a first embodiment of this invention.

Figure 2 illustrates a consumer receipt to be printed from a retailer register according the first embodiment of this invention.

15 Figure 3(a) is a block diagram of components of the system according to the first embodiment of this invention set forth in Figures 1-2.

Figure 3(b) is a flow chart illustrating a way in which the retailer register of the first embodiment may  
20 process and forward retailer transactions and collected sales tax data to a government office.

Figure 4 is a block diagram flow chart of a manual point of sale tax reporting and collection system according to a second embodiment of this invention, this second embodiment utilizing a declining register to be  
5 used by the retailer in order to ensure efficient sales tax collection by government authorities.

Figure 5 is a flow chart according to the Figure 4 embodiment to this invention, this Figure illustrating the manner in which the declining register operates in  
10 order to print consumer receipts indicating the amount of sales tax collected by the retailer from the consumer.

Figure 6 is a flow chart/block diagram according to an embodiment of this invention wherein tax (e.g. "use tax") on sales made over the Internet, catalog, world  
15 wide web, direct mail, etc. is automatically charged to the buyer and reported to the IRS and forwarded to the appropriate State Treasury.

DETAILED DESCRIPTION OF  
CERTAIN EMBODIMENTS OF THIS INVENTION

20 Referring now more particularly to the accompanying drawings in which like reference numerals indicate like parts and steps throughout the several views.

Figure 1 is a block diagram/flow chart of an electronic point of sale tax reporting and automatic collection system according to a first embodiment of this invention. The system and method as set forth in Figures 1-3 begins at retailer location 10 with the consumer at step 3 where the consumer purchases an item (good or service) from the retailer and pays the appropriate sales tax due on the transaction. When the consumer brings an item to be purchased to retailer check-out register 8, the retailer rings up the sale amount in step 5 by way of the register. Register 8 in step 5 calculates the total sale amount including the cost of the good or service being purchased and the sales tax due on the transaction. The retailer informs the consumer of the total cost of the transaction and the consumer subsequently pays both the sales price and the sales tax due to the retailer. After the retailer is paid, the retailer issues receipt 6 (see Figure 2) to the consumer in step 7. Consumers are educated regarding the importance of asking for receipt 6 so as to ensure that the retailer documents and reports the collected sales tax.

Register 8, which may be a combination conventional programmable electronic cash register and tax register, or alternatively a conventional electronic cash register connected to a separate and independent programmable electronic tax register, processes and summarizes each transaction in step 9. In summarizing each transaction, register 8 processes the total amount of money received by the retailer from the consumer, this including the sales tax collected and the base transaction amount. Periodically, at the end of each day for example, register 8 causes a printer to output a summary list of all transactions in step 11, this list including a summed total of sales tax collected by the retailer as well as a sum total of base transaction money received from consumers by the retailer.

For example, register 8 may be a tax-modified (via chip, hardware, and/or software technology) Omron Vantage 7000 PC-based point-of-sale system which is a turnkey hardware solution built around an upgradeable 486SX 25 MHZ processor. The system has a POS keyboard with integrated credit card reader and bar code decoder, receipt printer, VGA monitor, and cash drawer. The

software may be modified to perform the tax and retail tasks set forth herein.

Patent 4,451,055

Retailer register 8 is in communication with computer 13 which is disposed at remote location 12 as set forth in Figure 3(a). Any type of conventional communication link (e.g. satellite, phone line, T1, microwave, fiber optic, etc.) may be disposed between register 8 and computer 13. Computer 13 may, for example, be located at a state treasury office or other state government taxing authority. Register 8 forwards the amount of sales tax collected by the retailer to computer 13. Register 8 may either forward such sales tax data to computer 13 at the end of or during each transaction, or alternatively it may sum sales tax collected and base transaction amounts collected and store them in memory 15 and then periodically (e.g. at the end of each day) output the summed totals to computer 13 in accordance with its programmed instructions.

Computer 13 receives the forwarded sales tax data and optionally the base transaction data from retailer register 8 in step 17 and stores this information in memory 19, memory 19 preferably being located at the same

remote location 12 as computer 13. After computer 13 receives and stores the tax and transaction data, it accesses retailer bank account 21 in steps 23 and 25 for the purpose of debiting account 21 an amount equal to the sales tax collected by the retailer from consumers (e.g. debit the amount collected the previous day). Computer 13 may access retailer bank account 21 periodically (e.g. on a daily basis), or alternatively after or during each sales transaction recorded and/or processed by register 8, this, of course, depending upon whether register 8 is forwarding the transaction and sales tax data to computer 13 in a periodic or immediate real time manner.

For retail operations where tips are customary the tax register 8 may be programmed to accept and report tip information to location 12. Accordingly, collected tip money is automatically reported to the taxing authorities.

After computer 13 accesses retailer bank account 21 in step 23, the account is charged in step 25 an amount corresponding to the retailer tax data received from register 8 by computer 13 and stored in memory 19. By accessing a bank or checking account of the retailer, the

remote location 12 (e.g. state taxing authority)  
 automatically receives from retailer account 25 in step  
 27 the amount of sales tax collected by the retailer  
 thereby preventing the retailer from unintentionally not  
 5 turning over the collected tax to the appropriate  
 authorities. Retail register 8 thus is caused to  
 automatically report all sales transactions and sales tax  
 collected by the retailer to computer 13 and memory 19.  
 When remote location 12 receives such transaction and  
 10 sales tax data, it accesses retailer bank account 21 and  
 causes the account to be debited an amount corresponding  
 to the sales tax collected by the retailer. Conventional  
 electronic fund transfer techniques may be utilized to  
 debit retailer account 21.  
 15 Computer 13 is also in communication with CPU 31 via  
 any type of conventional communication link. CPU 31 is  
 preferably located at another remote location 33, which  
 is representative of the Internal Revenue Service (IRS)  
 according to certain embodiments of this invention.  
 20 Computer 13 summarizes and forwards all annual  
 transaction data, and optionally sales tax data, to CPU  
 31 so that the IRS receives such information in step 35.

Accordingly, the IRS is informed (via Form 1099) of the retailer's annual total gross income thereby ensuring that the retailer efficiently and automatically declares all transactions for tax purposes. CPU 31 is in

5 communication with memory 37 so that consumer transaction and sales tax data can be stored at the IRS in memory 37 for later access. It is noted that local area networks (LANs) may be provided at locations 10, 12, and 33 thereby allowing the system to efficiently and quickly  
10 function via conventional computer communication techniques.

Conventional electronic data interchange (EDI) technology or network centric computing may be used for the purpose of allowing register 8 to communicate with  
15 computer 13. Network centric computing allows the taxing authorities to record and collect the tax electronically. EDI is a known means of electronically exchanging information in a standard format from one computer to another. EDI is easily implemented in mainframe,  
20 minicomputer, PC, and LAN environments. Using EDI, documents and/or other data are transferred from the sender's computer mailbox to that of the recipient, such



documents or information (e.g. transaction data, sales  
tax data, etc.) being either sent directly or through a  
value-added network (VAN). Value-added networks are  
typically third party provisions offering fee-based  
5 services such as connections and protocol (e.g. TCP/IP)  
conversions, such networks routing each transaction to  
the appropriate electronic mailbox where the information  
stays until the other party downloads. Thus, EDI may be  
used as a way in which it allows register 8 to forward  
10 all of its transaction and sales tax data to computer 13  
located at the remote site 12. As will be recognized by  
those of skill in the art, EDI may also be utilized  
between computer 13 and CPU 31 so as to simplify and  
efficiently manage the communication networks according  
15 to the different embodiments of this invention.

An optional feature of this embodiment is the  
provision of verifying computer 41 at location 12 for the  
purpose of allowing consumers and/or other interested  
parties to verify that particular retailer transaction(s)  
20 were reported to locations 12 and 33 (e.g. state taxing  
authority and IRS respectively). For example, a consumer  
may verify in step 43 that his or her transaction was

reported by the retailer to the appropriate authorities  
by calling an 800 number in step 45. The 800 number  
provides the consumer access to verifying computer 41 by  
way of telephone line 49 so that via conventional DTMF  
5 coding technology the consumer can request verification  
in step 51 that a particular transaction(s) has, in fact,  
been reported.

Figure 2 illustrates an exemplary receipt 6 which  
may be provided to the consumer from the retailer in step  
10 7, receipt 6 being printed by retailer printer 59. As  
shown, customer or consumer receipt 6 has listed thereon  
the base sale amount 53, the amount of sales tax  
collected on the base transaction 55, and optionally a  
transaction number 57. Although not shown, the total  
15 transaction cost may also be printed on the receipt, with  
the base transaction amount 53 and the sales tax  
collected 55 being summed together by register 8 to come  
up with the total amount of the transaction. Optionally  
listed on the receipt is a telephone number which allows  
20 consumers to access verifying computer 41 in order to  
confirm that particular transactions (identified by



independent with respect thereto, is provided so as to  
allow consumers to pay the retailer at location 10 by way  
of credit or debit card in a known manner. Scanner 61 is  
in communication with credit card verifying source(s) 63  
5 via conventional telephone line(s) so that scanner 61 may  
check input credit card numbers to ensure their validity.  
The "or" block 65 illustrated in Figure 3(a) is provided  
so as to illustrate the fact that if credit card scanner  
61 is separate and independent from register 8, then  
10 scanner 61 is directly in communication with credit card  
verifying source 63, but when scanner 61 and register 8  
are integrally formed as one unit the register (and  
scanner) is in communication with the verifying source  
63.

15 Another optional feature according to this  
embodiment is the provision of computer 63 at retailer  
location 10. Depending upon the programmability of  
register 8, it may be necessary for a retailer to be  
provided with computer 63 for the purpose of processing  
20 base transaction costs, total costs, sales tax data,  
and/or storing and forwarding same to computer 13.

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Although not illustrated, another option to this embodiment is the provision of a plurality of mainframe computers disposed throughout a state for example, such mainframes being connected between computer 13 and the numerous retailers 10 spread throughout the state. Each mainframe when provided is responsible for gathering tax data and consumer transaction data from retailers, sorting the information and forwarding same to computer 13 at location 12. In such a manner, the burden placed upon computer 13 with respect to receiving, sorting, and storing transaction and tax data would be lessened with the mainframes taking on much of this burden.

Figure 3(b) is a flow chart illustrating steps taken by register 8 and computer 13. When a consumer purchases an item from a retailer, the sales transaction data is processed in step 67 and the sales tax calculated by register 8 in 69. After payment is received by the retailer from the consumer and receipt 6 is printed in step 71, the transaction amount (absent sales tax) and the sales tax paid on the transaction are each forwarded by register 8 to computer 13 in step 73, register 8 having PC capabilities according to certain embodiments.

After computer 13 receives the transaction amount data and sales tax data in step 73, computer 13 accesses the memory slot within memory 19 designated for the particular retailer identified. Computer 13 then causes  
5 the transaction and sales tax data to be summed with like data stored in that slot in step 75 so as to keep a running tabulation on the amount of sales tax and transaction fees collected by that particular retailer.

Figures 4-5 are block diagram/flow charts of a  
10 manual point of sale tax reporting and automatic collection system according to a second embodiment of this invention. According to this embodiment, a declining register, similar to a conventional Pitney-Bowes postage stamp meter, is utilized. The process  
15 begins in step 77 with the retailer taking its assigned declining register to a government sales tax office or electronic credit machine. At such an office or machine, the retailer pre-pays the state a particular amount of sales tax credit, with the state then in step 79  
20 crediting and stocking the retailer's declining register with the amount pre-paid. Thus, the retailer leaves having prepaid a particular amount of sales tax in step

81, this amount not yet having been received by the  
retailer from consumers.

When a transaction occurs and a consumer purchases a  
particular item upon which sales tax is to be collected,  
5 the consumer pays the sales tax in step 83 and thereafter  
the retailer issues an official tax receipt in step 85.  
The declining register is used to "stamp" the amount of  
sales tax collected onto the receipt which is then given  
to the consumer. When the declining register prints the  
10 receipt, its balance declines in step 87 (as with  
conventional declining postage meters) until finally,  
after a plurality of consumer purchases and retailer  
receipts stamps, the register zeros out in step 89.  
Thereafter, the retailer takes his declining register  
15 back to the sales tax office or electronic credit machine  
and repeats step 77 and those following. Each time a  
retailer's declining register is credited with a  
particular pre-paid sales tax amount, the state stores  
and keeps a summary of all credited receipts and tax  
20 credits in step 91. Therefore, both the state and the  
IRS are provided annually with the total sum of sales tax  
collected (i.e. credited) by each retailer in step 93.

Figure 5 is a block diagram/flow chart which more particularly illustrates the steps taken by the retailer using the declining register in the Figure 4 embodiment of this invention. At every transaction upon which sales tax is to be paid, the declining register is first keyed for the particular sales tax collected on the base transaction amount in step 95. In accordance with conventional declining register devices, the sales tax amount is deducted from the remaining balance in the machine in step 97. The machine issues a sales tax paid receipt in step 98, this receipt being imprinted with a state owned indicia and indicating the amount of sales tax collected by the retailer from the consumer. Receipt 99, which may or may not also include the total sale amount and/or the base transaction amount, is attached to the consumer's invoice in step 101.

Figure 6 is block diagram/flow chart according to an embodiment of this invention wherein tax (e.g. "use tax") on sales made over the Internet, catalog, world wide web, direct mail, etc. 216, is automatically charged to the buyer or customer, and reported to the IRS and forwarded to the appropriate State Treasury based on the location



of the customer (i.e. where the goods are to be shipped).  
As shown in Figure 6, when a buyer or customer wishes to  
purchase a product over the Internet 216, for example,  
the buyer or consumer first uses communication link 216  
5 (e.g. packet switched digital data network) and makes the  
purchase at 201 (e.g. via direct mail, catalog order,  
Internet, etc.). After the consumer has made the  
purchase, the transaction (i.e. the purchase) is recorded  
on tax register 8 at the retailer location at 203.  
10 Thereafter, tax register 8 calculates the sales tax or  
"use tax" based on the destination of the goods at 205.  
For example, if the consumer or buyer is located in  
Virginia and the purchased goods are requested by the  
consumer to be shipped there from a New York retailer,  
15 tax register 8 at 205 calculates the Virginia use tax to  
be charged against the consumer's account or credit card.  
After this tax has been calculated at 205, the consumer  
is given a receipt 7 via the Internet, direct mail, or  
simply by regular U.S. Mail 216. After the tax has been  
20 calculated at 205, the retailer ships the purchased goods  
to the consumer and initiates a credit card transaction  
at 207, given the fact that the consumer has purchased

the goods with a credit card. In step 207, tax register  
8 instructs the system and coordinates the credit card  
transaction via a modem which is in communication with  
the credit card company. Thus, the credit card company  
5 at 209 charges the credit card of the consumer with both  
the sales price and the tax (e.g. use tax or just sales  
tax if the goods are not being shipped out-of-state).

Still referring to Figure 6, after the credit card  
transaction has been completed, the amount of the sale is  
10 dispersed to the retailer at 211 via network 216 and tax  
register 8 reports the sales transaction to the State  
and/or IRS at 213. While tax register 8 reports to the  
State and IRS, the credit card company disperses the tax  
funds charged the consumer to the State and/or IRS at 214  
15 via network 216. At 215, the appropriate State Treasury  
(e.g. Virginia) receives the tax calculated in step 205  
over the Internet, modem, etc., while at step 35, the IRS  
receives the gross income summary form 1099 via network  
216. Network 216 may be the Internet throughout the  
20 entire Figure 6 system or, alternatively, may be  
partially the Internet (packet switched network) and

otherwise via the public switched telephone network (PSTN) or the like.

In a manner consistent with Figure 6, appropriate State and Federal Government Agencies automatically  
5 receive their tax information, including use tax and sales tax dollars, when consumers purchase goods or products over the Internet, via catalog, direct mail, televised shopping clubs, etc. 216 where enforcement of "use tax" payment is otherwise difficult given  
10 conventional systems. In sum, the Figure 6 system is an improvement over the prior art which will permit governments to save large quantities of tax dollars, and will allow consumers and retailers to avoid costly tax preparation.

15 In certain embodiments, the invention relates to all purchases from consumers that use a credit or debit card or any form of electronic payment. Anything that is bought whether at the local store, over the phone or through the mail or e-commerce, and a credit or debit  
20 card is used to make payment, the tax may be charged to the buyer at the point of sale and routed directly or indirectly to the appropriate state bank (e.g. handling

the credit card account or the like) or other monetary or  
tax authority. Thus, in certain embodiments, this  
invention covers routing of any and all taxes (of all  
kinds) from the point of sale or purchase directly from  
5 the buyer to the government (or alternatively  
indirectly). This may include interstate fuel taxes or  
other tariffs and duties. Also included are credit  
cards, debit cards, checkfree systems and electronic fund  
transfers.

10       Once given the above disclosure, therefore, various  
other modifications, features, or improvements will  
become apparent to the skilled artisan. Such other  
features, modifications, and improvements are thus  
considered a part of this invention, the scope of which  
15 is to be determined by the following claims.

WE CLAIM:

- 1           1.    A point of sale tax reporting system in an  
2    environment where a consumer purchases goods, the point  
3    of sale tax reporting system comprising:  
4                at least one tax register located at a merchant  
5    or retailer location, said at least one tax register for  
6    processing consumer sales transaction data at the  
7    retailer location and computing use tax data to be paid  
8    to an appropriate state agency based upon at least one of  
9    the location of a consumer and where the purchased goods  
10   are to be shipped, said at least one tax register  
11   forwarding said transaction data and use tax data to one  
12   of the state agency and a credit card processing company  
13   for processing;  
14               a first computer and corresponding first memory  
15   disposed at the state agency, the first computer and  
16   memory for receiving and storing the forwarded use tax  
17   data from one of the credit card processing company and a  
18   merchant at the retailer location; and  
19               a first communication link connecting the tax  
20   register at the retailer location to the first computer  
21   and memory at the state agency, said first communication

22 link for permitting the tax register to directly or  
23 indirectly forward the use tax data to said first  
24 computer and memory whereby the tax data from the  
25 retailer is automatically forwarded to the state agency  
26 and stored in the first memory in order to help enforce  
27 tax laws and prevent consumers or merchants from avoiding  
28 the payment of use tax.

1 2. The point of sale tax reporting system of claim  
2 1, wherein the consumer purchases goods with one of a  
3 credit card, a debit card, and any form of electronic  
4 payment.

5 3. The point of sale tax reporting system of claim  
6 1, wherein the first communication link is one of a  
7 digital packet switched network and a satellite network.

1 4. The system of claim 1, wherein the system  
2 includes means at the retailer location for accessing a  
3 credit card company in response to the transaction so  
4 that the credit card company automatically charges the  
5 consumer's credit card with both the sales price and a

6 use tax based upon a destination to which the consumer  
7 requests that the purchased goods be shipped.

1 5. The system of claim 4, further including means  
2 for allowing the credit card company to forward use tax  
3 charged to the consumer to the state agency whereby the  
4 use tax, where appropriate, is automatically charged to  
5 the consumer, and wherein the use tax includes sales tax.

6 6. The system of claim 1, further including means  
7 for issuing a tax stamp receipt to a consumer as evidence  
8 of tax paid for attachment to a parcel.

1 7. The system of claim 1, further including a  
2 digital data network provided so as to connect the  
3 retailer location to a consumer location where the  
4 consumer is positioned, said digital data network for  
5 allowing the consumer to purchase goods from a retailer  
6 via said digital data network.

1           8.    The system of claim 1, wherein said link  
2   includes one of a telephone line, a digital data network,  
3   and a satellite wireless communication link.

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## ABSTRACT

A point of sale tax reporting and automatic collection system including a smart tax register located at a retailer location. The retailer smart register  
5 processes consumer transactions and calculates the amount of sales tax due the retailer by the consumer for each transaction. Following the transaction, the consumer requests and is give a tax paid receipt. After the sales tax is paid to the retailer by the consumer, the register  
10 either immediately or periodically forwards the amount of the transaction and the amount of sales tax collected by the retailer to a computer and memory located at a remote location (e.g. state government taxing authority). The computer and memory receive and store the retailer's  
15 transaction and sales tax information, and report same to the Internal Revenue Service at least once a year. After receiving the retailer's sales tax information, the computer accesses and debits an account belonging to the retailer, the amount debited corresponding to the amount  
20 of sales tax collected by the retailer. In sum, the system automatically reports all retailer transactions and sales tax collected by retailers from consumers to

local and federal government authorities and then  
automatically collects the sales tax amounts from  
retailer accounts so as to prevent retailers from turning  
over the collected sales tax. A tax paid receipt is  
5 given to each consumer as evidence that the tax paid will  
be turned over to the proper authorities.

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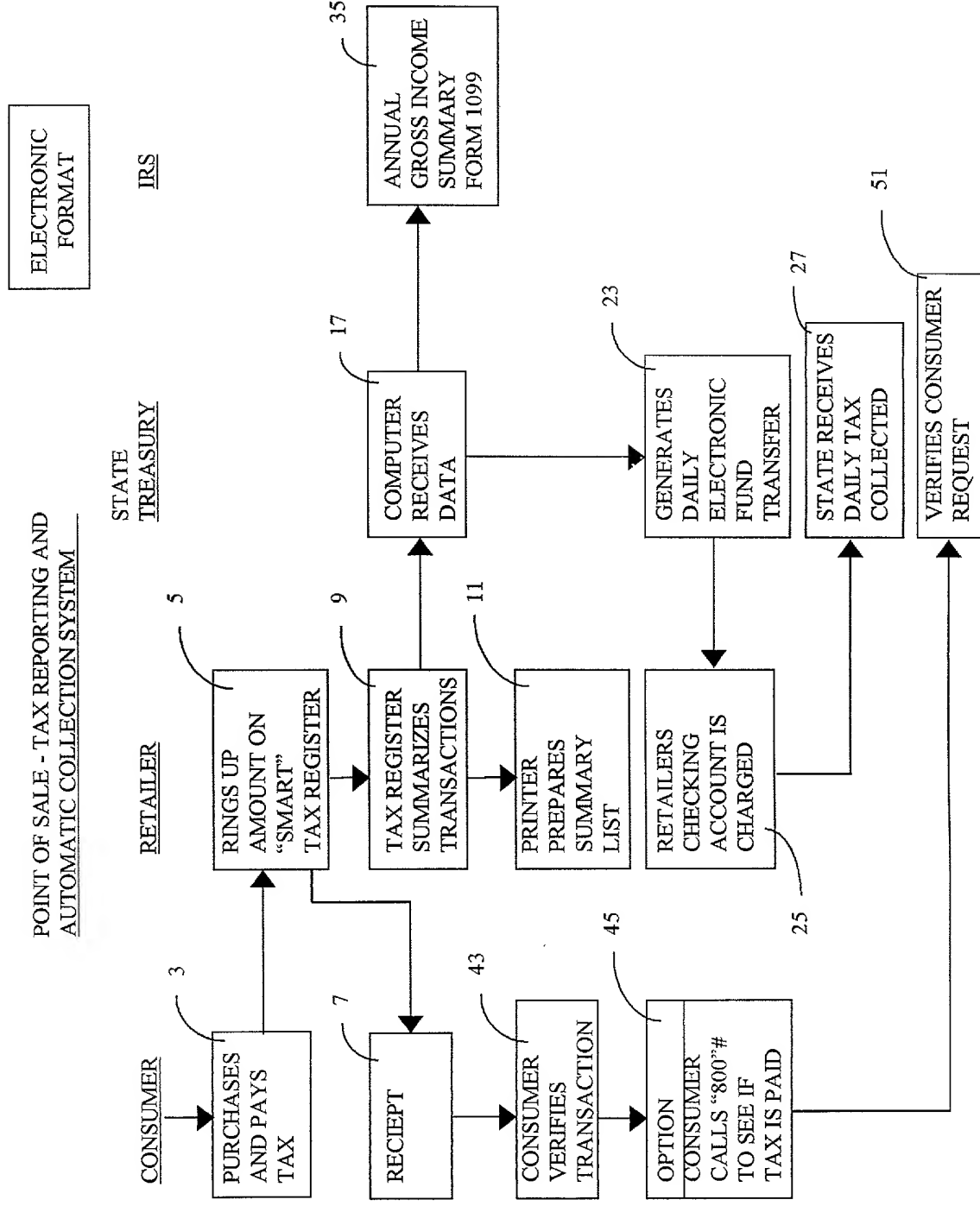


FIG. 1

POINT OF SALE - TAX REPORTING AND  
AUTOMATIC COLLECTION SYSTEM

CUSTOMER RECEIPT  
FROM SMART  
REGISTER

RETAILER NAME LOCATION PHONE # SALES TAX ID #	STATE OWNED INDICIA AUTHENTICATES TRANSACTION
AMOUNT OF SALE \$XXXXXX	53
TAX COLLECTED \$XXXXXX	55
TRANSACTION #XXXXXXXXXX	57
TO VERIFY YOUR TRANSACTION CALL 1-800-9999 (follow menu instructions)	6

FIG. 2

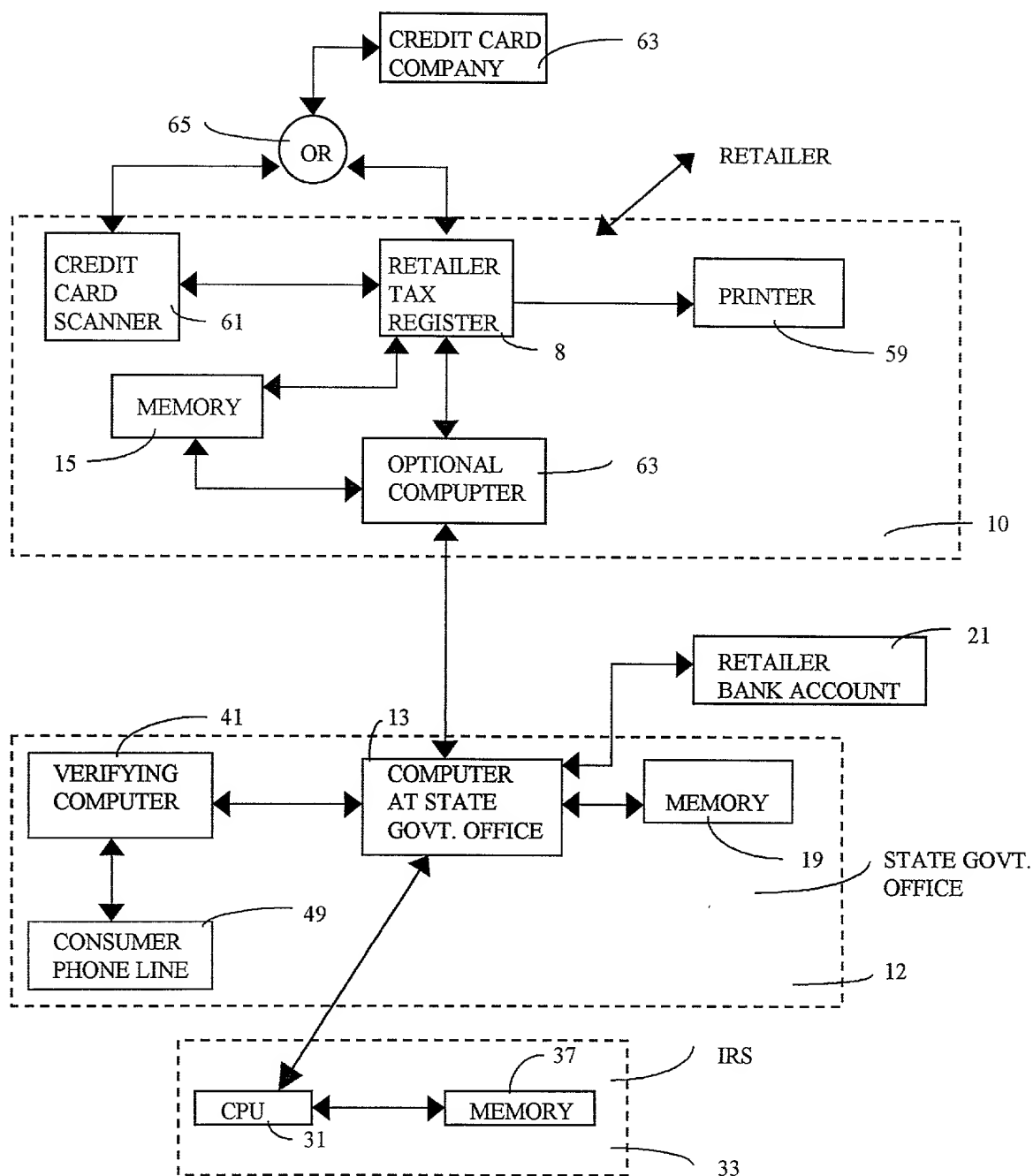


FIG. 3 (a)

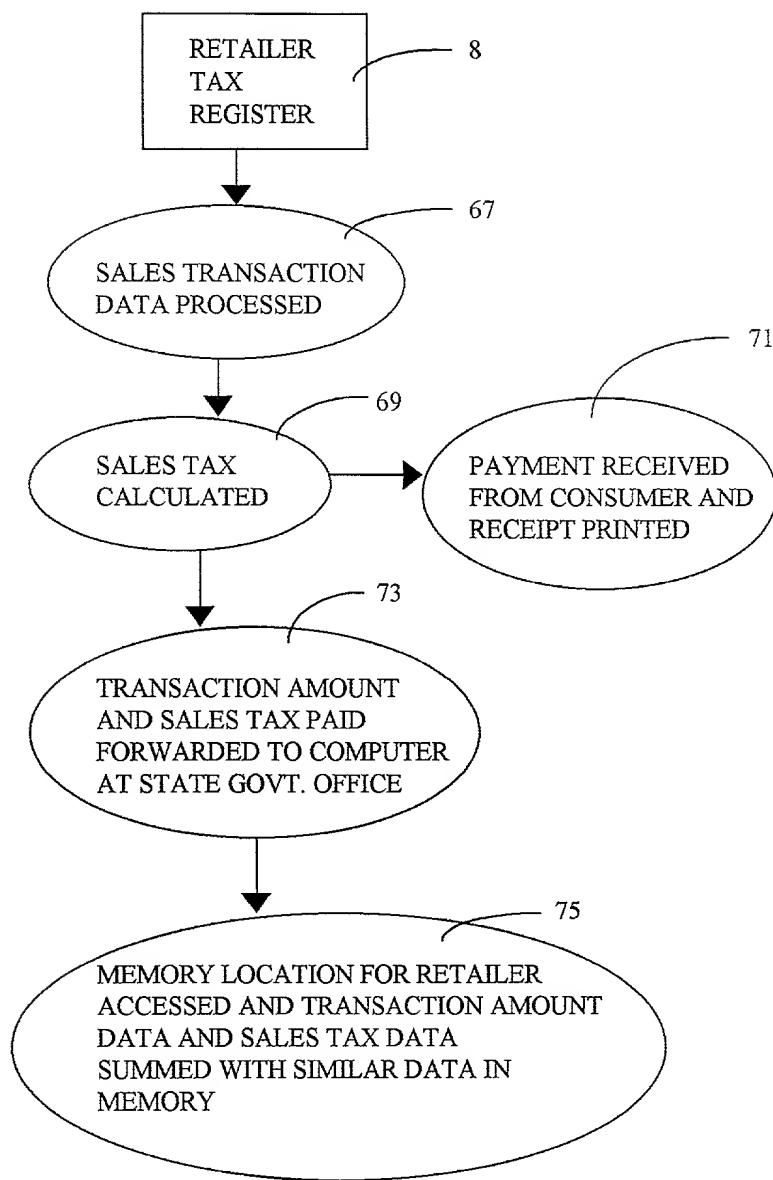


FIG. 3(b)

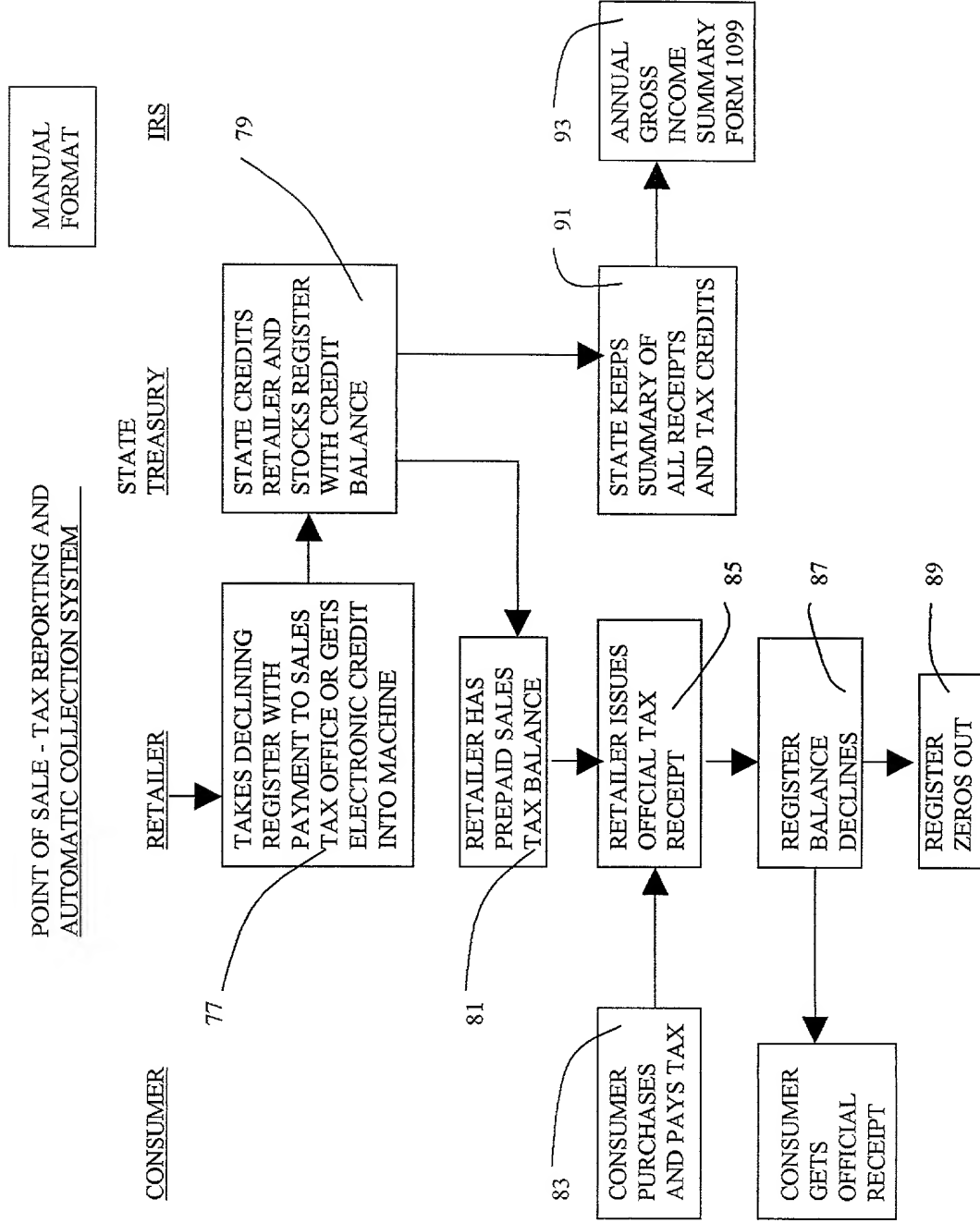


FIG. 4

Parameter	1990-1991		1991-1992		1992-1993		1993-1994		1994-1995		1995-1996		1996-1997		1997-1998		1998-1999		1999-2000		2000-2001		2001-2002		2002-2003		2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		2008-2009		2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		2014-2015		2015-2016		2016-2017		2017-2018		2018-2019		2019-2020		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025		2025-2026		2026-2027		2027-2028		2028-2029		2029-2030		2030-2031		2031-2032		2032-2033		2033-2034		2034-2035		2035-2036		2036-2037		2037-2038		2038-2039		2039-2040		2040-2041		2041-2042		2042-2043		2043-2044		2044-2045		2045-2046		2046-2047		2047-2048		2048-2049		2049-2050		2050-2051		2051-2052		2052-2053		2053-2054		2054-2055		2055-2056		2056-2057		2057-2058		2058-2059		2059-2060		2060-2061		2061-2062		2062-2063		2063-2064		2064-2065		2065-2066		2066-2067		2067-2068		2068-2069		2069-2070		2070-2071		2071-2072		2072-2073		2073-2074		2074-2075		2075-2076		2076-2077		2077-2078		2078-2079		2079-2080		2080-2081		2081-2082		2082-2083		2083-2084		2084-2085		2085-2086		2086-2087		2087-2088		2088-2089		2089-2090		2090-2091		2091-2092		2092-2093		2093-2094		2094-2095		2095-2096		2096-2097		2097-2098		2098-2099		2099-2100		2100-2101		2101-2102		2102-2103		2103-2104		2104-2105		2105-2106		2106-2107		2107-2108		2108-2109		2109-2110		2110-2111		2111-2112		2112-2113		2113-2114		2114-2115		2115-2116		2116-2117		2117-2118		2118-2119		2119-2120		2120-2121		2121-2122		2122-2123		2123-2124		2124-2125		2125-2126		2126-2127		2127-2128		2128-2129		2129-2130		2130-2131		2131-2132		2132-2133		2133-2134		2134-2135		2135-2136		2136-2137		2137-2138		2138-2139		2139-2140		2140-2141		2141-2142		2142-2143		2143-2144		2144-2145		2145-2146		2146-2147		2147-2148		2148-2149		2149-2150		2150-2151		2151-2152		2152-2153		2153-2154		2154-2155		2155-2156		2156-2157		2157-2158		2158-2159		2159-2160		2160-2161		2161-2162		2162-2163		2163-2164		2164-2165		2165-2166		2166-2167		2167-2168		2168-2169		2169-2170		2170-2171		2171-2172		2172-2173		2173-2174		2174-2175		2175-2176		2176-2177		2177-2178		2178-2179		2179-2180		2180-2181		2181-2182		2182-2183		2183-2184		2184-2185		2185-2186		2186-2187		2187-2188		2188-2189		2189-2190		2190-2191		2191-2192		2192-2193		2193-2194		2194-2195		2195-2196		2196-2197		2197-2198		2198-2199		2199-2200		2200-2201		2201-2202		2202-2203		2203-2204		2204-2205		2205-2206		2206-2207		2207-2208		2208-2209		2209-2210		2210-2211		2211-2212		2212-2213		2213-2214		2214-2215		2215-2216		2	
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CUSTOMER  
RECEIPT FROM  
DECLINING  
REGISTER

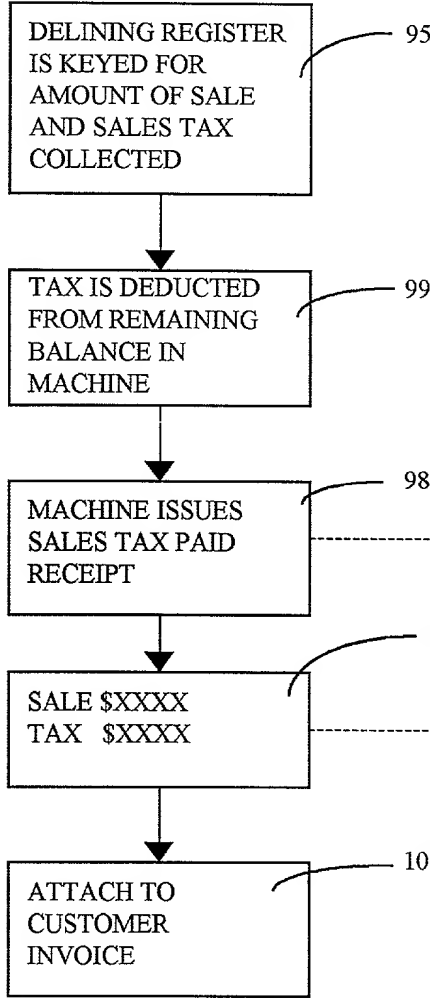


FIG. 5



POINT OF SALE - TAX COLLECTION SYSTEM FOR PURCHASES  
MADE OVER THE INTERNET, WORLD WIDE WEB, BY DIRECT  
MAIL AND CATALOG, AND TELEVISED SHOPPING CLUBS

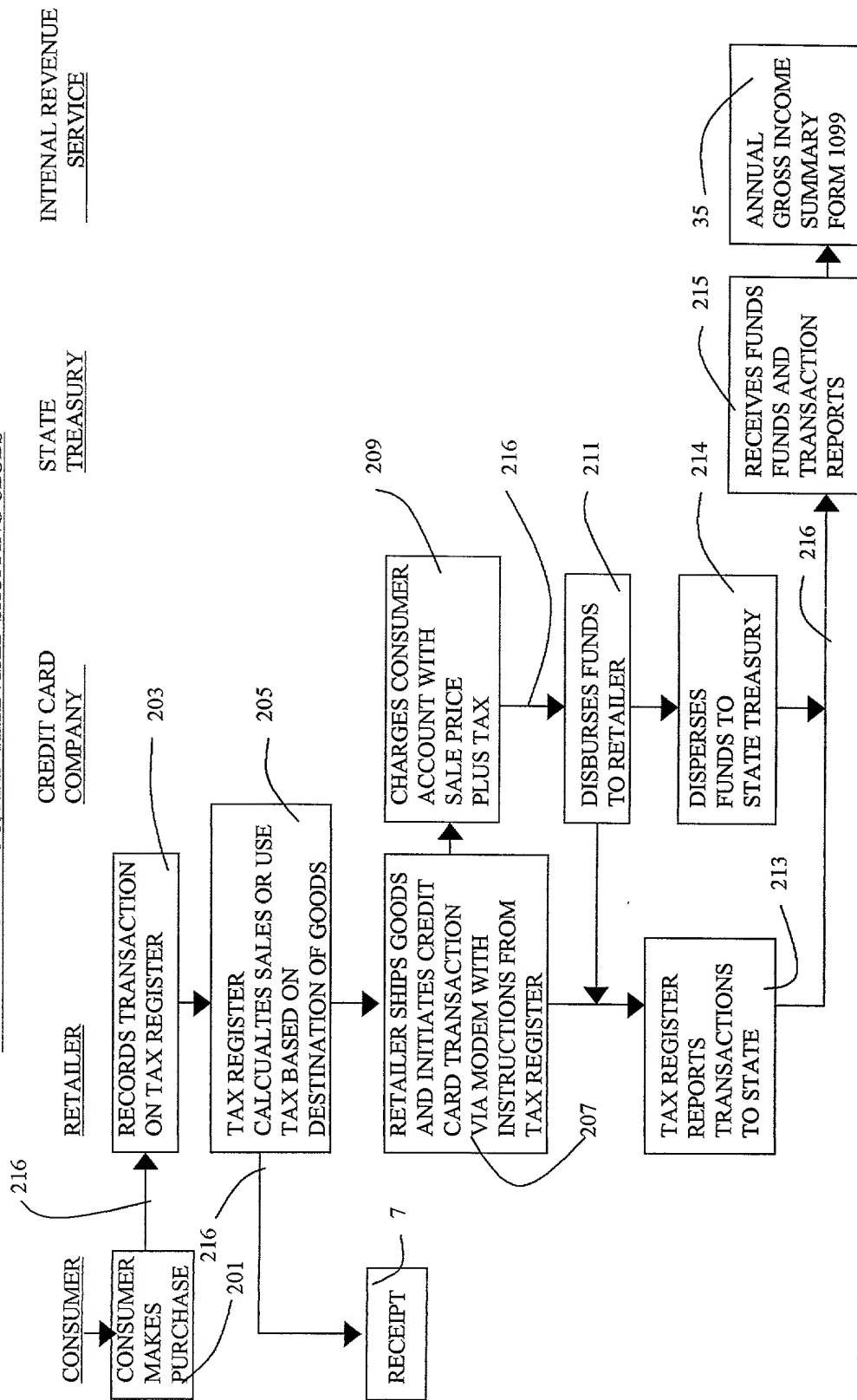


FIG. 6